



## PATENT ABSTRACTS OF JAPAN

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(71) Applicant: REFLECTION TECHNOLOG INC

(72) Inventor: WELLS BENJAMIN A

**(54) RESONANCE TYPE SCANNING DEVICE OF  
 LOW VIBRATION FOR SMALL-SIZED  
 OPTICAL DISPLAY DEVICE**

attachment is reduced and the vibration of an optical display device for performing resonance type scanning is reduced.

**(57) Abstract:**

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**PURPOSE:** To reduce vibration as the whole by providing a mirror and a balancing mass to be moved in mutually opposite directions and attaching both masses to the same base for mounting.

**CONSTITUTION:** The mirror 30 is connected to the base 21 through a first spring means 32 so as to make the mirror 30 freely vibratable relatively to the base 21. Also, the balancing mass 36 is connected to the base 21 through a second spring means 34 so as to make the balancing mass 36 freely vibratable relatively to the base 21. Then, the first spring means 32 and the second spring means 34 are connected to the base 21 so as to almost mutually cancel first reaction force and second reaction force at the base 21. Thus, the resultant of the reaction force transmitted to the base 21 for

